

1/8

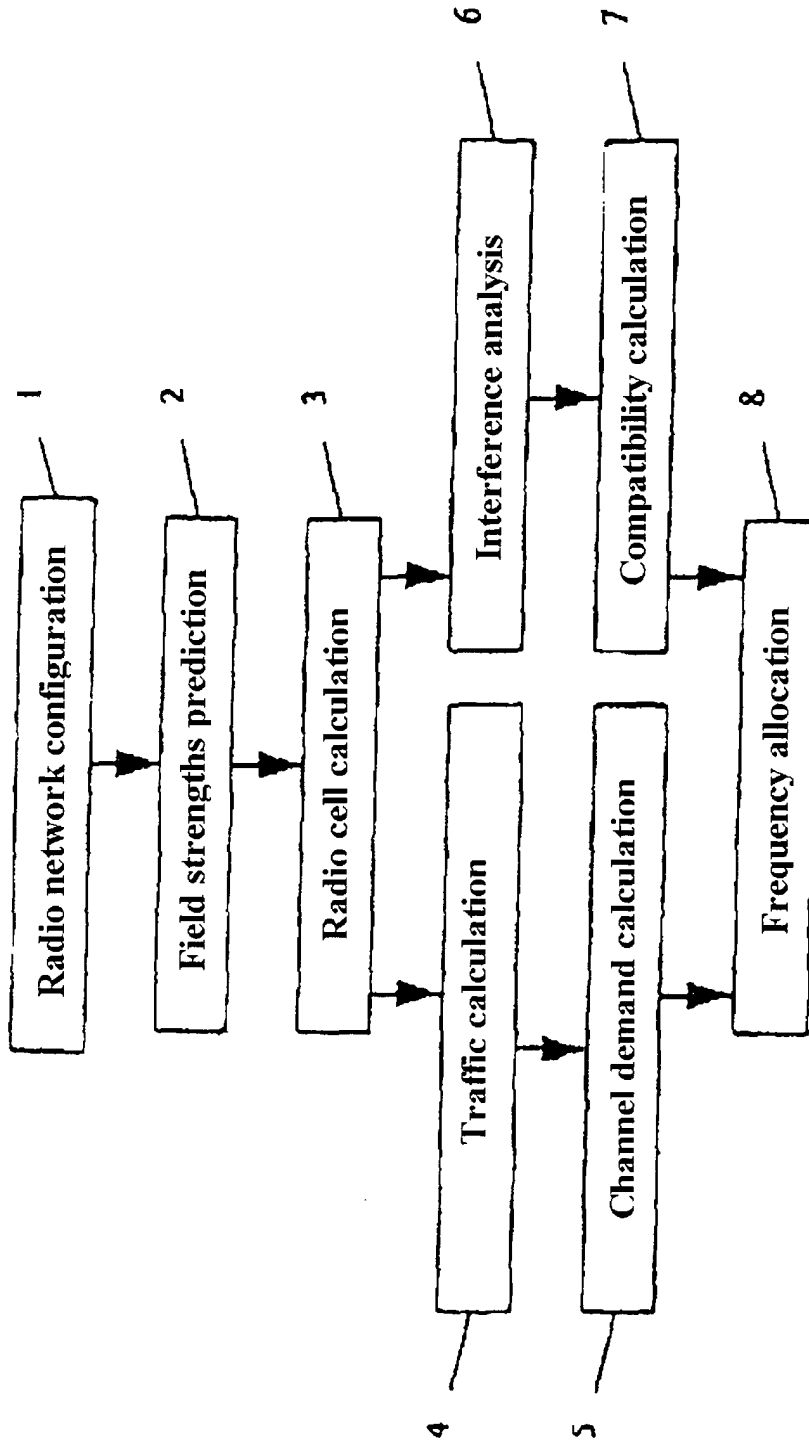


Figure 1

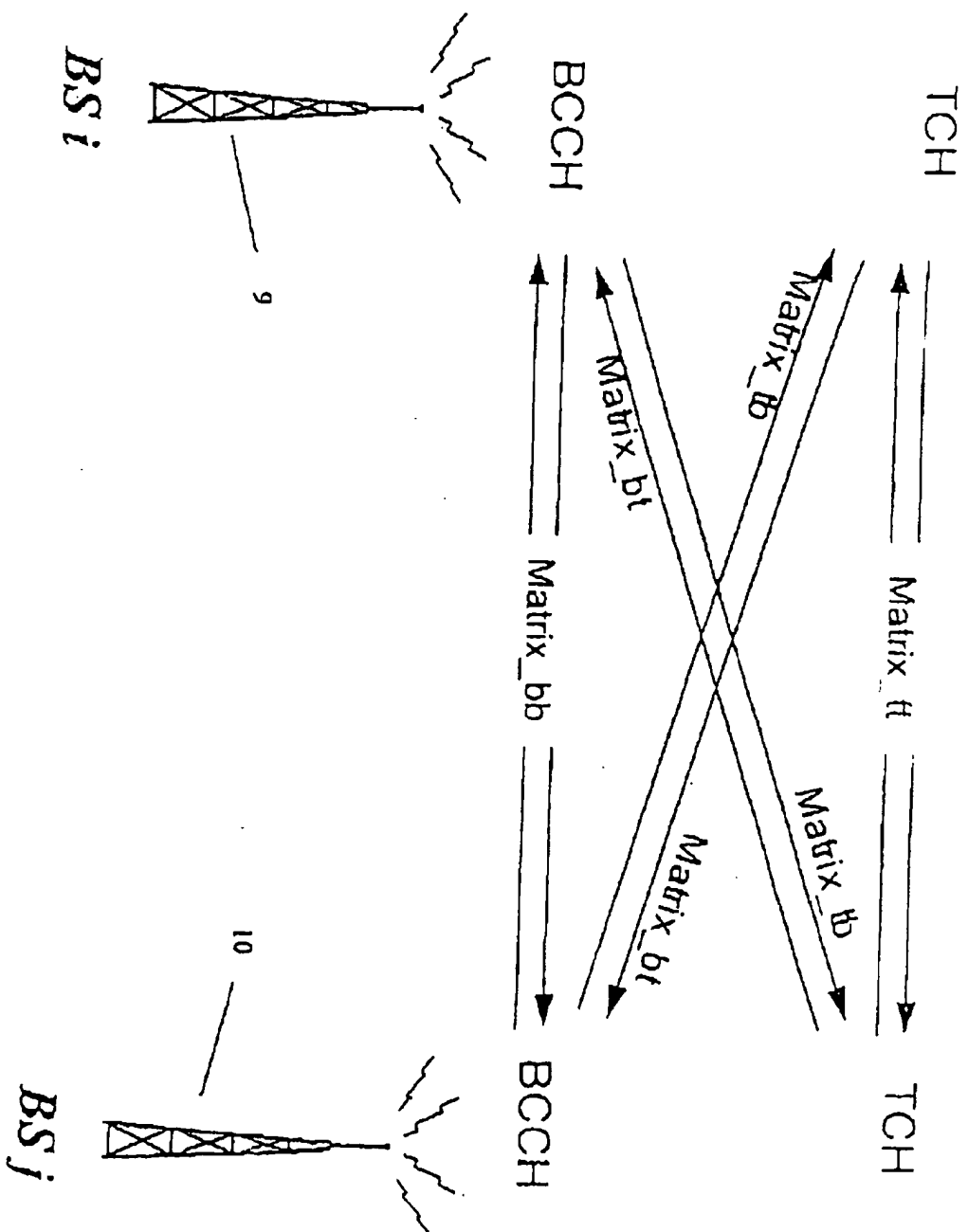
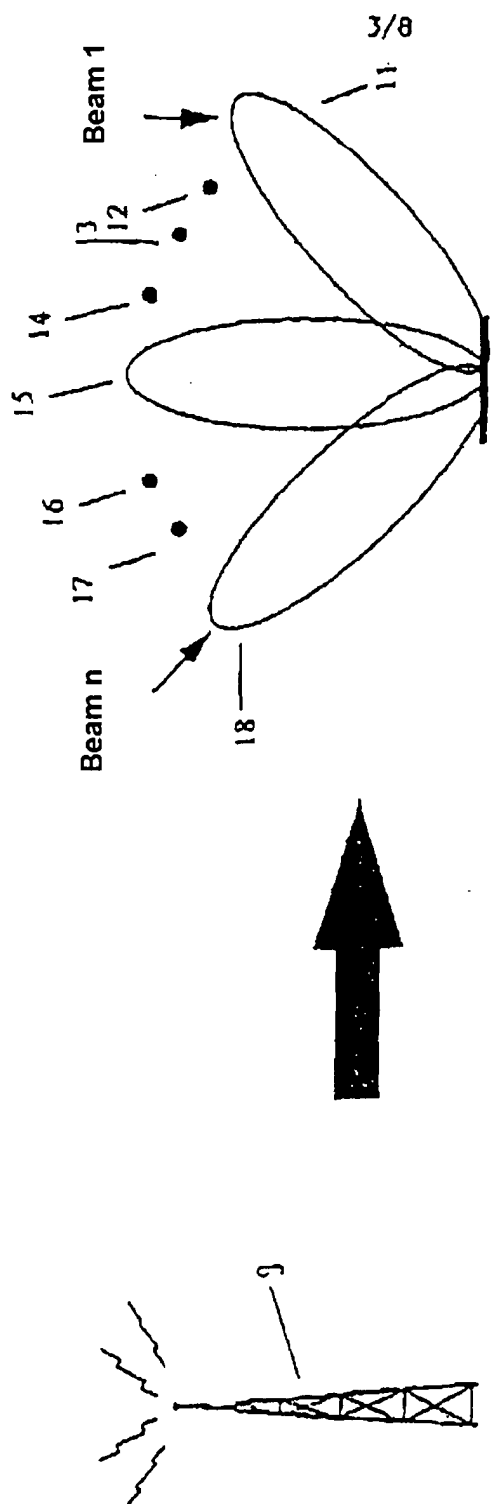


Figure 2



Definition of n antennas with
 n different beams

A base station equipped
with adaptive antenna

Figure 3

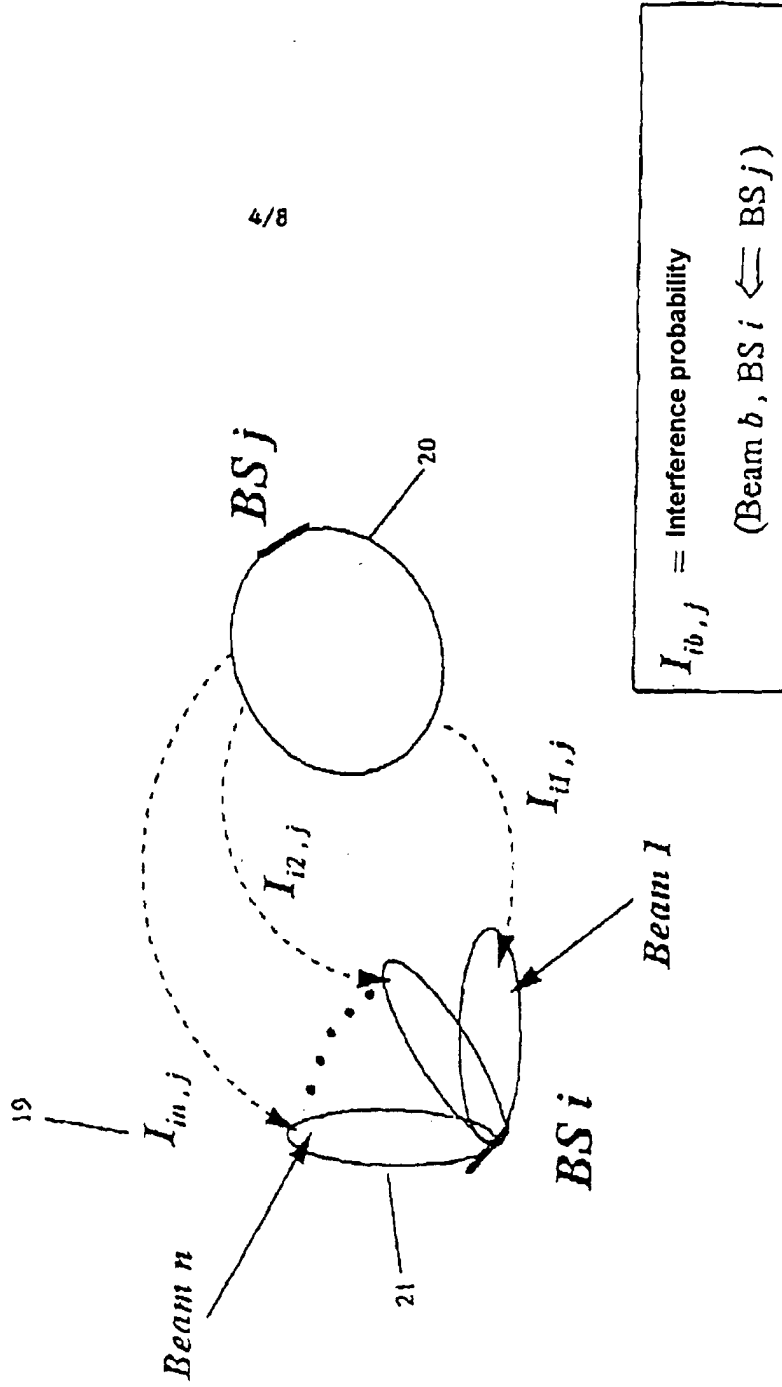


Figure 4

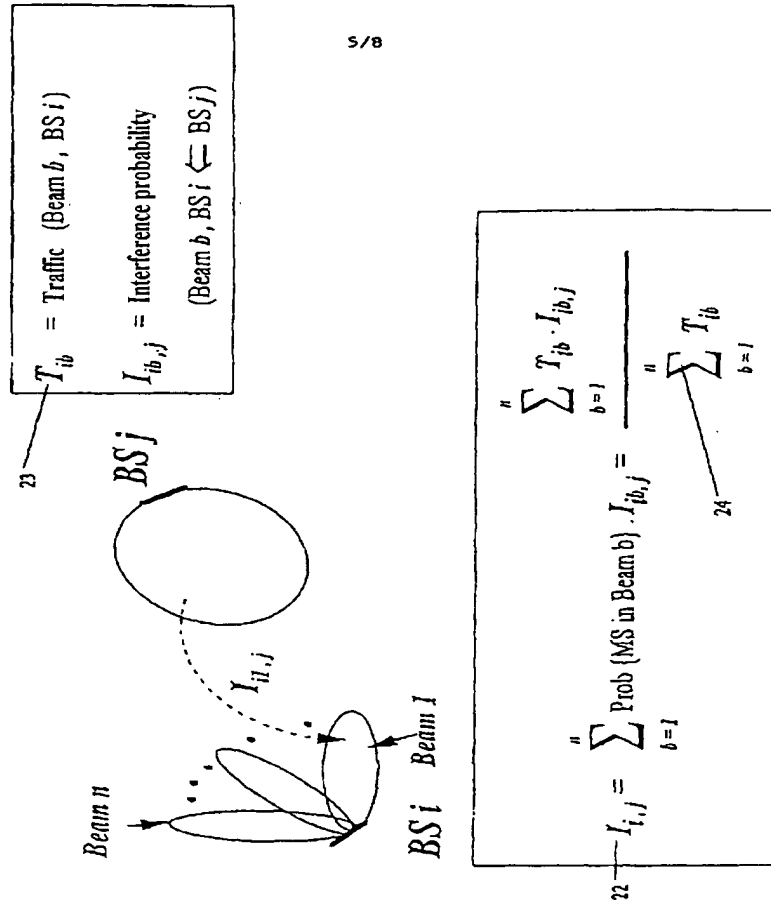
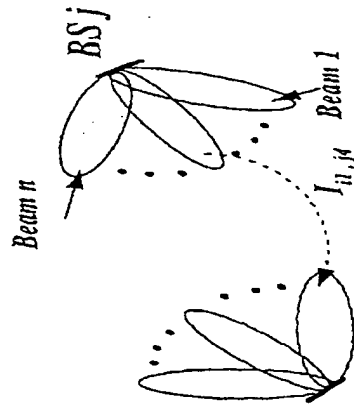


Figure 5

$$T_{ib} = \text{Traffic (Beam } b, \text{ BS } i)$$

$$I_{ib,ja} = \text{Interference probability (Beam } b, \text{ BS } i \leftarrow \text{Beam } a, \text{ BS } j)$$

6/B

25
BS i

$$I_{i,j} = \sum_{b=1}^n \sum_{a=1}^n \text{Prob (MS in Beam } b) \cdot \text{Prob (MS in Beam } a) \cdot I_{ib,ja} = \frac{\sum_{b=1}^n \sum_{a=1}^n T_{ib} T_{ja} I_{ib,ja}}{\sum_{b=1}^n T_{ib} \sum_{a=1}^n T_{ja}}$$

Figure 6

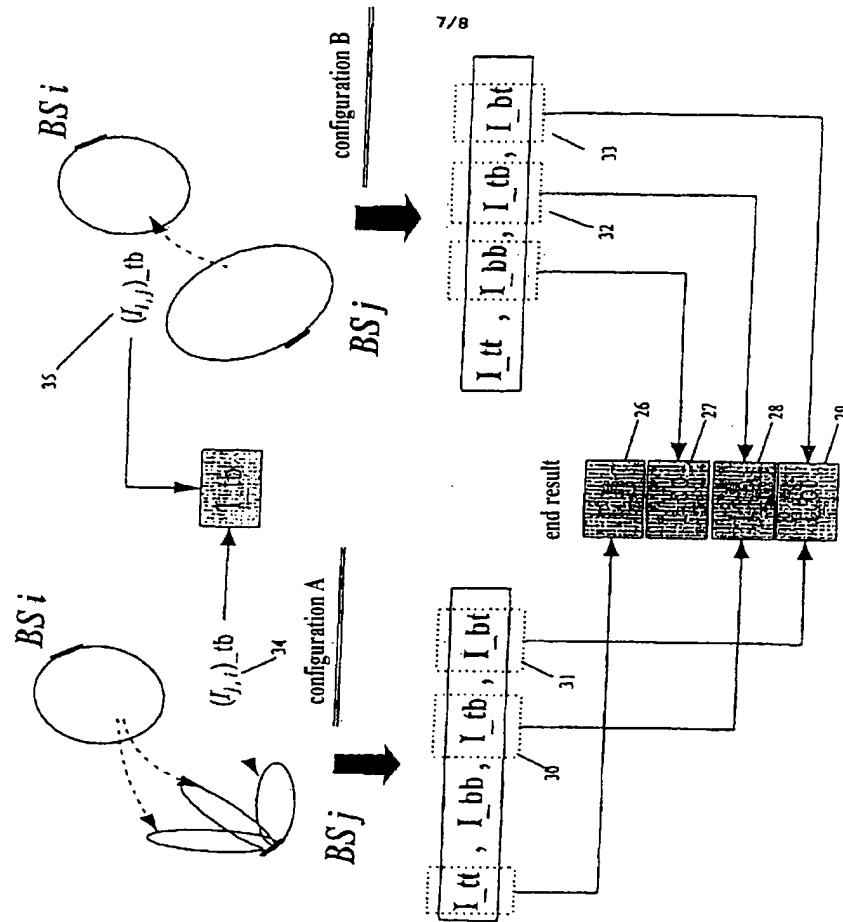


Figure 7

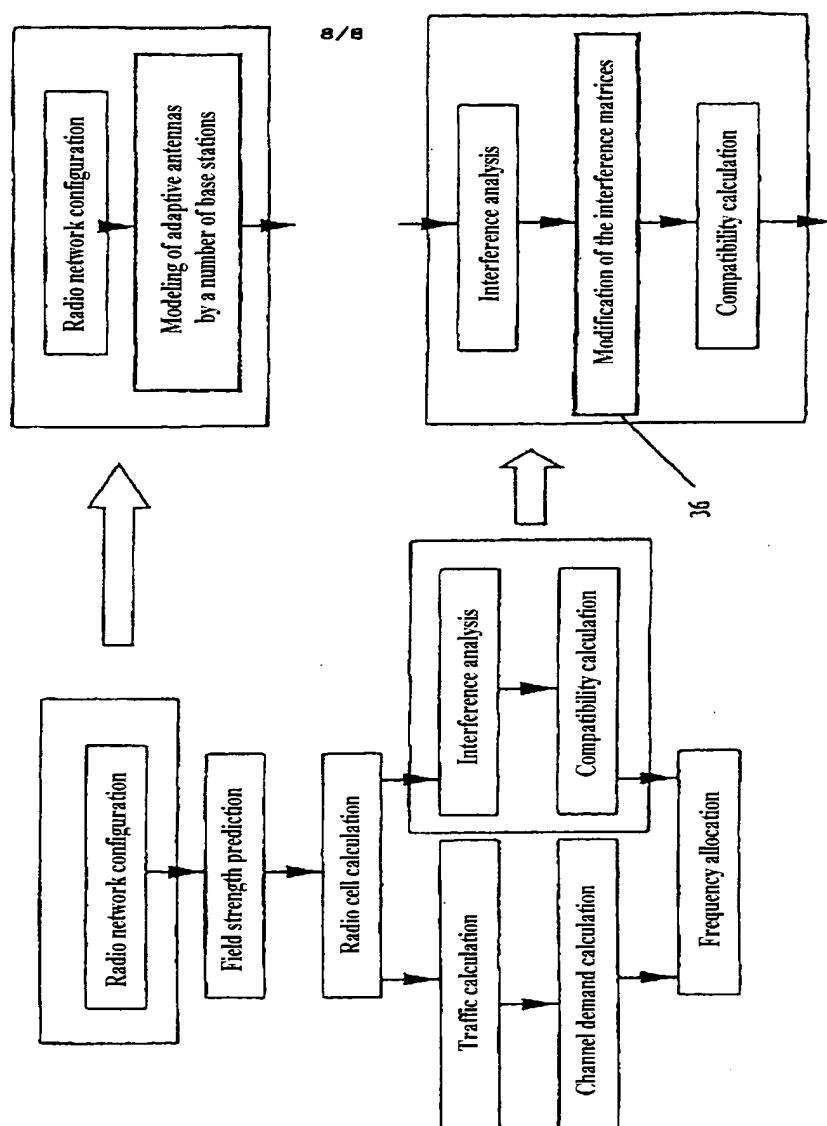


Figure 8